

Patent Claims

1. Method for protecting a commercial product (200) against theft, in which a security unit (1) is equipped with a connect mode (110), characterized in that the security unit (1) has an on-state mode (100) in which a receiver (6) that is housed in the security unit (1) is activated, specifically is switched on, and in that the system is shifted from the on-state mode (100) to the connect mode (110) when the receiver (6) is impinged upon by a transmitter (5).
2. Method pursuant to claim 1, characterized in that the security unit (1) is placed in the on-state mode (100) when it is switched on, especially when it is connected to an energy source.
3. Method pursuant to claim 1 or 2, characterized in that, in the connect mode (110), the security unit (1) can be prepared for a shift to a monitoring mode (130).
4. Method pursuant to one of claims 1 through 3, characterized in that the receiver (6) is deactivated, specifically is switched off, when the security unit (1) shifts to the connect mode (110).
5. Method pursuant to one of claims 1 through 4, characterized in that the security unit (1) is shifted from the connect mode (110) to an alarm mode (120) if it is not prepared within a preset time interval for a shift to the monitoring mode (130), and in that the receiver (6) is activated, specially is switched on, when the security unit (1) shifts to the alarm mode (120).

6. Method pursuant to claim 3, characterized in that, in the monitoring mode (130), an attempted theft will result in a shift to the alarm mode (120), in that in the monitoring mode (130) the receiver (6) is deactivated, specially is switched off, and in that the receiver (6) is activated, specially is switched on, when the security unit (1) shifts to the alarm mode (120).
7. Method pursuant to claim 5 or 6, characterized in that the alarm mode (120) is terminated when the receiver (6) is impinged upon by the transmitter (5).
8. Method for protecting a commercial product (200) against theft, in which a security unit (1) is connected to a central unit (10) via connectors (4), and in which the central unit (10) is equipped with a connect mode (110), characterized in that the central unit (10) has an on-state mode (100), in which a receiver (6) that is housed in the central unit (10) is activated, specially is switched on, and in that the system is shifted from the on-state mode (100) to the connect mode (110) when the receiver (6) is impinged upon by a transmitter (5).
9. Method pursuant to claim 8, characterized in that the central unit (10) is shifted to the on-state mode (100) when it is switched on, specifically when it is connected to an energy source.
10. Method pursuant to claim 8 or 9, characterized in that the security unit (1) and/or the central unit (10) can be prepared in the connect mode (110) for a transfer to a monitoring mode (130).

11. Method pursuant to one of claims 8 through 10, characterized in that the receiver (6) is deactivated, specifically is switched off, when the central unit (10) shifts to the connect mode (110).
12. Method pursuant to one of claims 8 through 11, characterized in that the central unit (10) is switched from the connect mode (110) to an alarm mode (120) when the security unit (1) and/or the central unit (10) have not been prepared for a shift to the monitoring mode (130) within a preset time interval, and in that the receiver (6) is activated, specifically is switched on, when the central unit (10) shifts to the alarm mode (120).
13. Method pursuant to claim 10, characterized in that in the monitoring mode (130) a theft attempt will result in a shift to an alarm mode (120), in that in the monitoring mode (130) the receiver (6) is deactivated, specifically is switched off, and in that the receiver (6) is activated, specifically is switched on, when the central unit (10) shifts to the alarm mode (120).
14. Method pursuant to claim 12 or 13, characterized in that the alarm mode (120) is terminated when the receiver (6) is impinged upon by the transmitter (5).
15. Method pursuant to one of the preceding claims, characterized in that the transmitter (5) transmits a selection signal that impinges upon the receiver (6).
16. Method pursuant to claim 15, characterized in that the selection signal used to terminate the alarm mode (120) and the selection signal used to shift the system to the connect mode (110) are the same.
17. Method pursuant to claim 15, characterized in that the alarm mode (120) is not terminated if a selection signal received during the alarm mode (120) differs from the selection signal that was received by the system in the on-state mode (100).
18. Method pursuant to one of claims 15 through 17, characterized in that the selection signal is encoded.

19. Method pursuant to one of claims 15 through 18, characterized in that the selection signal is stored in the receiver (6) in a volatile memory, preferably in a RAM (random access memory).
20. Method pursuant to one of claims 15 through 19, characterized in that the security unit (1) and/or the central unit (10) are switched off and on in series, in order to subsequently transfer a selection signal to the security unit (1).
21. Method pursuant to one of claims 15 through 20, characterized in that to transmit the selection signal from the transmitter (5) to the receiver (6) a remote operation system, specifically a radio remote operation system, is used.
22. Method pursuant to one of claims 15 through 21, characterized in that the selection signal is transmitted by a transmitter (5) to at least one other transmitter.
23. Method pursuant to one of the preceding claims, characterized in that one or more operating modes for the security unit (1) and/or the central unit (10) are indicated via an optical and/or acoustic signal.
24. Method pursuant to claim 23, characterized in that the optical and/or acoustic signal is modulated based upon an amount of time remaining in the time interval.
25. Method pursuant to one of the preceding claims, characterized in that a status of an energy source for the security unit (1) and/or the central unit (10) is monitored.
26. Method pursuant to claim 25, characterized in that an acoustic and/or optical signal is emitted based upon the status of the energy source.

27. Method pursuant to one of the preceding claims, characterized in that multiple security units (1) and/or multiple central units (10) are operated using a single transmitter (5).
28. Method pursuant to one of the preceding claims, characterized in that the security unit (1) is equipped with a bracket component (2) for mounting to the product (200), and in that in attaching the bracket component (2) to the product (200) a monitoring of the bracket component (2) for proper attachment to the product (200) is activated.
29. Method pursuant to claim 28, characterized in that the security unit (1) is equipped with a mounting component (3) that is connected to the bracket component (2) via connectors (4), for fastening to a mounting area that preferably cannot be stolen, and in that, in the attachment of the mounting component (3) to the mounting area, a monitoring of the mounting component (3) for proper fastening to the mounting area is activated.
30. Method pursuant to one of claims 28 or 29, characterized in that in attaching the bracket component (2) to the product (200) and/or in attaching the mounting component (3) to the mounting area the monitoring is activated in that, in the bracket component (2) and/or in the mounting component (3), a measuring loop that comprises one or more sensors is closed.
31. Method pursuant to claim 30, characterized in that, when an attempt is made to separate the bracket component (2) from the product (200) and/or the mounting component (3) from the mounting area and/or the bracket component (2) from the mounting component (3), especially by severing the connectors (4), the measuring loop is opened.
32. Method pursuant to claim 28, characterized in that the security unit (1), especially the bracket component (2), can be connected to the central unit (10) via the connectors (4), and in that, in connecting the security unit (1) to the central unit (10), a monitoring for proper connection of the security unit (1) to the central unit (10) is activated.

33. Method pursuant to claim 32, characterized in that, in attaching the bracket component (2) to the product (200) and/or in connecting the security unit (1) to the central unit (10), the monitoring is activated in that, in the bracket component (2), a measuring loop comprising one or more sensors is closed.
34. Method pursuant to claim 33, characterized in that, when an attempt is made to separate the bracket component (2) from the product (200) and/or the security unit (1) from the central unit (10), especially by severing the connectors (4), the measuring loop is opened.
35. Device for protecting a commercial product (200) against theft, wherein a security unit (1) is provided with a connect mode (110), characterized in that the security unit (1) has an on-state mode (100), in which a receiver (6) that is housed in the security unit (1) is activated, specifically is switched on, and in that the receiver (6) is deactivated in the connect mode (110), specifically is switched off.
36. Device pursuant to claim 35, characterized in that the security unit (1) has a monitoring mode (130), in which a theft attempt will result in the security unit (1) shifting to an alarm mode (120), and in that in the monitoring mode (130) the receiver (6) is deactivated, specifically is switched off, and in the alarm mode (120) is activated, specifically is switched on.
37. Device pursuant to claim 36, characterized in that the security unit (1) can be prepared in the connect mode (110) for a shift to the monitoring mode (130).
38. Device for protecting a product (200) against theft, wherein a security unit (1) is connected to a central unit (10) via connectors (4), and wherein the central unit (10) is equipped with a connect mode (110), characterized in that the central unit (10) is equipped with an on-state mode (100), in which a receiver (6) that is housed in the central unit (10) is activated, specifically is switched on, and in that the receiver (6) is deactivated in the connect mode (110), specifically is switched off.

39. Device pursuant to claim 38, characterized in that the central unit (10) is equipped with a monitoring mode (130), in which a theft attempt will trigger a shift of the central unit (10) to an alarm mode (120), and in that in the monitoring mode (130) the receiver (6) is deactivated, specifically is switched off, and in the alarm mode (120) is activated, specifically is switched on.
40. Device pursuant to claim 39, characterized in that the security unit (1) and/or the central unit (10) can be prepared in the connect mode (110) for a shift to the monitoring mode (130).
41. Device pursuant to one of claims 35 through 40, characterized in that the security unit (1) is equipped with a bracket component (2) for attachment to the product (200).
42. Device pursuant to claim 41, characterized in that a monitoring can be activated via an attachment of the bracket component (2) to the product (200).
43. Device pursuant to one of claims 41 or 42, characterized in that the security unit (1) is equipped with a mounting component (3) that is connected to the bracket component (2) via connectors (4) and is intended for mounting the unit to a mounting area that preferably cannot be stolen.
44. Device pursuant to claim 43, characterized in that a monitoring can be activated by attaching the mounting component (3) to the mounting area.
45. Device pursuant to one of claims 41 or 42, characterized in that the security unit (1) can be connected via connectors (4) to the central unit (10), and in that a monitoring can be activated by connecting the security unit (1) to the central unit (10).
46. Device pursuant to one of claims 35 through 45, characterized in that a transmitter (5) that is designed as a remote operation system, specifically as a radio remote operation system, is provided for impinging upon the receiver (6).

47. Device pursuant to one of claims 35 through 46, characterized in that the security unit (1) and/or the central unit (10) comprises a preferably volatile memory, preferably a RAM (random access memory), for storing a selection signal.
48. Device pursuant to one of claims 35 through 47, characterized in that the security unit (1) and/or the central unit (10) is equipped with optical and or acoustic signal generators (7).
49. Device pursuant to claim 48, characterized in that the optical signal generators are designed as light-emitting diodes (7a).
50. Device pursuant to claim 48 or 49, characterized in that the acoustic signal generators are designed as piezoelectric transducers (7b).
51. Device pursuant to one of claims 35 through 50, characterized in that a housing of the security unit (1) and/or the central unit (10) is at least partially translucent or transparent.
52. Device pursuant to one of claims 35 through 51, characterized in that the bracket component (2) and/or the mounting component (3) are equipped with a measuring loop formed by one or more sensors.
53. Device pursuant to claim 52, characterized in that the measuring loop of the bracket component (2) and the measuring loop of the mounting component (3) are connected in series.
54. Device pursuant to one of claims 52 or 53, characterized in that the measuring loop(s) can be opened up when an attempt is made to separate the bracket component (2) from the product (200) or the mounting component (3) from the mounting area or the bracket component (2) from the mounting component (3), specifically by severing the connectors (4).

55. Device pursuant to one of claims 52 through 54, characterized in that the one or more sensors are designed as electrical sensors, especially as ohmic sensors that preferably comprise foil-type conductor loops, or as capacitive sensors and/or as optical sensors.
56. Device pursuant to one of claims 35 through 55, characterized in that the bracket component (2) and/or the mounting component (3) are provided with an adhesive layer (2a) for affixing the bracket component (2) to the product (200) and/or for affixing the mounting component (3) to the mounting area, which preferably is comprised of a double-sided adhesive strip.
57. Device pursuant to claim 56, characterized in that as the double-sided adhesive strip, the adhesive strip that is sold by the Beiersdorf firm under the trade name "Tesa Power Strip" is used.
58. Device pursuant to claim 56 or 57, characterized in that the adhesive layer (2a) adheres more strongly to the product (200) or to the mounting area than to the bracket component (2) or to the mounting component (3).
59. Device pursuant to one of claims 56 through 58, characterized in that the adhesive layer(s) (2a) is/are provided with a grip tab (2d).
60. Device pursuant to one of claims 52 through 59, characterized in that the one or more sensors are integrated at least partially into the adhesive layer (2a).
61. Device pursuant to one of claims 43 through 60, characterized in that the receiver (6) is housed in the mounting component (3) or in the central unit (10).
62. Device pursuant to one of claims 43 through 61, characterized in that a battery chamber (8) is provided in the mounting component (3) or in the central unit (10).

63. Device pursuant to one of the claims 41 through 62, characterized in that the bracket component (2) is provided with a first mounting area (2b) and a second mounting area (2c) - preferably designed as a surface - wherein the second mounting area (2c) is more flexible than the first mounting area (2b).
64. Device pursuant to claim 63, characterized in that a material thickness at the first mounting area (2b) is greater than a material thickness at the second mounting area (2c).
65. Device pursuant to one of claims 43 through 64, characterized in that the mounting component (3) is equipped with a retractor device (9).
66. Device pursuant to one of claims 43 through 65, characterized in that the connectors (4) are designed as cable, specifically as flat ribbon cable.
67. Device pursuant to one of claims 43 through 66, characterized in that the mounting component (3) can be suspended and/or latched in the bracket component (2).
68. Device pursuant to one of claims 43 through 67, characterized in that the mounting component (3) and the bracket component (2) can be coupled by means of a magnet.